ELSEVIER

Colloids and Surfaces B: Biointerfaces 4 (1995) 443–445

COLLOIDS
AND
SURFACES B

Contents

(*Abstracted/indexed in*: *Chemical Abstracts*; *Current Contents*; *Physical, Chemical & Earth Sciences*; *INSPEC*; *PASCAL/CNRS*)

Vol. 4 No. 1

Lipid perturbation of liposomal membrane of dipalmitoyl phosphatidylcholine by chloroquine sulphate — a fluorescence anisotropic study
A.K. Ghosh, R. Basu and P. Nandy (Calcutta, India) 1
Reversibility and mechanism of bacterial adhesion
H.H.M. Rijnaarts and W. Norde (Wageningen, The Netherlands), E.J. Bouwer (Baltimore, MD, USA), J. Lyklema and A.J.B. Zehnder (Wageningen, The Netherlands) 5
Competition between fibrinogen and a non-ionic surfactant in adsorption to a wettability gradient surface
M. Wahlgren (Lund, Sweden), S. Welin-Klintström (Linköping, Sweden), T. Arnebrant (Lund, Sweden), A. Askendal and H. Elwing (Linköping, Sweden) 23
Micelle-like structures in human saliva
M. Rykke, G. Smistad, G. Rölla and J. Karlsen (Oslo, Norway) 33
Conformational changes of bovine serum albumin as a consequence of adsorption mimicked by freezing molecular motion
R. Nicholov (Toronto, Ont., Canada), R.P.N. Veregin (Mississauga, Ont., Canada) and F. DiCosmo (Toronto, Ont., Canada) 45
Interaction of stearylamine–liposomes with erythrocyte ghosts: analysis of membrane lipid mixing and aqueous contents mixing, and the effect of carboxymethyl chitin on the interaction
T. Nishiya and R.T-T. Lam (Montreal, Que., Canada) 55

Vol. 4 No. 2

The desorption of ribonuclease A from charge density gradient surfaces studied by spatially-resolved total internal reflection fluorescence
Y.S. Lin and V. Hlady (Salt Lake City, UT, USA) 65
Study of liposomal drug delivery systems. 2. Encapsulation efficiencies of some steroids in MLV liposomes
S.B. Kulkarni and E.I. Vargha-Butler (Halifax, N.S., Canada) 77
Electrokinetic properties of *Streptococcus sanguis* and *Actinomyces naeslundii*
M.K. Yelloji Rao and P. Somasundaran (New York, NY, USA), K.M. Schilling, R. Carson and K.P. Ananthapadmanabhan (Edgewater, NJ, USA) 87
Three-component non-ionic oil-in-water microemulsions using polyoxyethylene ether surfactants
C. Malcolmson and M.J. Lawrence (London, UK) 97
Simulations of adsorption from flowing solutions in a slit or capillary with a finite adsorption constant at the walls
P. Déjardin and I. Cottin (Strasbourg, France) 111
Selective enzymatic reactions using microemulsion-based gels
S. Backlund, F. Eriksson, L.T. Kanerva and M. Rantala (Turku, Finland) 121

Vol. 4 No. 3

Binding of *Rhizomucor miehei* lipase to emulsion interfaces and its interference with surfactants
P. Skagerlind, M. Jansson, B. Bergenståhl and K. Hult (Stockholm, Sweden) 129

0927-7765/95/$09.50 © 1995 Elsevier Science B.V. All rights reserved

Adhesion of L1210 cells to sulfonated styrene copolymer surfaces in the absence of serum
H.M. Kowalczyńska (Warsaw, Poland) 137
The targeting of lectin-bearing liposomes to skin-associated bacteria
M. Kaszuba, I.G. Lyle and M.N. Jones (Manchester, UK) 151
Surface tension determined with a micromethod
P. Rao and G. Enhorning (Buffalo, NY, USA) 159
Interaction of IgG and albumin with functionalized silicas
S. Khamlichi (Hamilton, Ont., Canada), A. Serres, D. Muller, J. Jozefonvicz (Villetaneuse, France) and J.L. Brash (Hamilton, Ont., Canada) 165
Competitive protein adsorption at phospholipid surfaces
M. Malmsten and B. Lassen (Stockholm, Sweden) 173
Interaction between proteins and inorganic oxides — adsorption of albumin and its desorption with a complexing agent
C.J. van Oss, W. Wu, R.F. Giese (Buffalo, NY, USA) and J.O. Naim (Rochester, NY, USA) 185

Vol. 4 No. 4

The isoelectric point of bacteria as an indicator for the presence of cell surface polymers that inhibit adhesion
H.H.M. Rijnaarts, W. Norde, J. Lyklema and A.J.B. Zehnder (Wageningen, The Netherlands) 191
X-ray photoelectron spectroscopy analysis of biosurfaces: examination of performances with yeast cells and related model compounds
P.B. Dengis, P.A. Gerin and P.G. Rouxhet (Louvain-la-Neuve, Belgium) 199
Kinetics of the spreading of Intralipid™ emulsions at the air–water interface
V. Raneva, M.G. Ivanova, T. Ivanova (Sofia, Bulgaria), E. Rogalska, R. Verger (Marseille, France) and I. Panaiotov (Sofia, Bulgaria) 213
Protein adsorption onto ionic surfaces
K. Kato, S. Sano and Y. Ikada (Kyoto, Japan) 221
Purification of membrane receptors with peptide-carrying affinity latex particles
Y. Inomata, Y. Kasuya, K. Fujimoto, H. Handa and H. Kawaguchi (Yokohama, Japan) 231
Real-time recording of antigen–antibody reactions at surfaces: interpretation of data and a statistical model
H. Nygren (Göteborg, Sweden) 243

Vol. 4 No. 5

Mechanical behavior of Al_2O_3 ceramics under cyclic tension–compression loading
Th. Schneider and H. Harig (Bremen, Germany) 251
Binding kinetics of antibody to hapten-doped lipid monolayers as studied by multiple internal reflection fluorescence method
S. Tanimoto (Kyoto, Japan) and H. Kitano (Toyama, Japan) 259
Enzyme immobilization on thermosensitive hydrogel microspheres
T. Shiroya, N. Tamura, M. Yasui, K. Fujimoto and H. Kawaguchi (Yokohama, Japan) 267
Control of enzymatic activity using thermosensitive polymers
T. Shiroya, M. Yasui, K. Fujimoto and H. Kawaguchi (Yokohama, Japan) 275
Molecular interactions between phospholipids and glycolipids in a lipid bilayer
A. Sekiguchi, H. Yamauchi (Chiba, Japan), A. Manosroi, J. Manosroi (Chiang Mai, Thailand) and M. Abe (Chiba, Japan) 287
Influence of interfacial properties on perfluorocarbon/aqueous emulsion stability
D.J. Burgess and J.K. Yoon (Chicago, IL, USA) 297

Brief Note

Lipid-disordering effect of aspirin on the liposomal membrane of dipalmitoyl phosphatidyl choline — a fluorescence anisotropy study
A.K. Ghosh, R. Basu, S. Dey, S. Das, N.P. Nayak, B. Barat and P. Nandy (Calcutta, India) 309

Vol. 4 No. 6

Protein adsorption on to low-temperature isotropic carbon. 4. Competitive adsorption on carbon and silica studied by two-dimensional electrophoresis
L. Feng and J.D. Andrade (Salt Lake City, UT, USA) ... 313
Interaction forces between κ-casein adsorbed on mica
P.B. Chowdhury and P.F. Luckham (London, UK) ... 327
The phase behaviour of L-α-phosphatidylcholine in the presence of chlorpromazine under different experimental conditions
G. Adhikary, S. Chandra, R. Sikdar and P.C. Sen (Calcutta, India) ... 335
Significance of β-sheet formation for micellization and surface adsorption of surfactin
Y. Ishigami, M. Osman, H. Nakahara, Y. Sano (Ibaraki, Japan), R. Ishiguro and M. Matsumoto (Kyoto, Japan) ... 341
Preparation and characterization of biodegradable poly(isobutylcyano acrylate) nanoparticles with the surface modified by the adsorption of proteins
J.-C. Olivier, C. Vauthier, M. Taverna, D. Ferrier and P. Couvreur (Châtenay-Malabry, France) ... 349
Polysaccharides at interfaces. 1. Adsorption of cholesteryl-pullulan derivatives at the solution–air interface. Kinetic study by surface tension measurements
B. Demé, V. Rosilio and A. Baszkin (Châtenay-Malabry, France) ... 357
Polysaccharides at interfaces. 2. Surface potential of adsorbed cholesteryl-pullulan monolayers at the solution–air interface
B. Demé, V. Rosilio and A. Baszkin (Châtenay-Malabry, France) ... 367
Adsorption of lysozyme and α-lactalbumin on poly(styrenesulphonate) latices. 1. Adsorption and desorption behaviour
F. Galisteo and W. Norde (Wageningen, The Netherlands) ... 375
Adsorption of lysozyme and α-lactalbumin on poly(styrenesulphonate) latices. 2. Proton titrations
F. Galisteo and W. Norde (Wageningen, The Netherlands) ... 389
Physicochemical aspects of microbial adhesion — influence of antibody adsorption on the deposition of *Streptococcus sobrinus* in a parallel-plate flow chamber
M. van Raamsdonk (Amsterdam, The Netherlands), H.C. van der Mei, G.I. Geertsema-Doornbusch (Groningen, The Netherlands), J.J. de Soet (Amsterdam, The Netherlands), H.J. Busscher (Groningen, The Netherlands) and J. de Graaff (Amsterdam, The Netherlands) ... 401
A differential microcalorimetric study of whey proteins and their behaviour in oil-in-water emulsions
M. Corredig and D.G. Dalgleish (Guelph, Ont., Canada) ... 411
Molecular interactions between phospholipids and mangostin in a lipid bilayer
A. Yoshida (Chiba, Japan), A. Manosroi, J. Manosroi (Chiang Mai, Thailand), H. Yamauchi and M. Abe (Chiba, Japan) ... 423

Brief Note

Effect of halothane on the electrical properties of mixed bilayers of glycerol monooleate and L, α-dipalmitoylphosphatidylcholine
L. Dei, E. Ferroni and G. Sarti (Florence, Italy) ... 433

Announcement ... 437
Author Index ... 439
Subject Index ... 441
Contents (Vol. 4) ... 443